

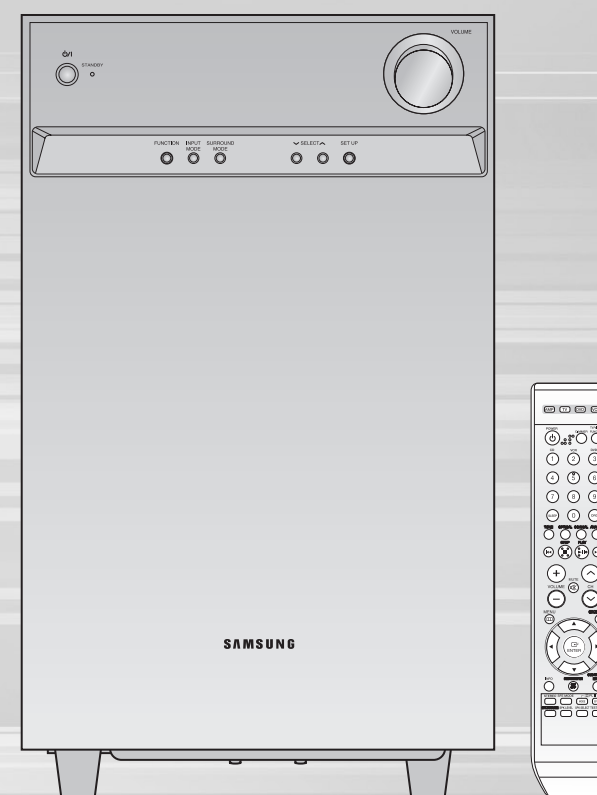
SAMSUNG

Digital Amplifier Speaker System *HT-AS1* *HT-AS1T*

THIS APPLIANCE IS MANUFACTURED BY:

SAMSUNG

Instruction Manual



AH68-01942B



Safety Warnings



CAUTION
RISK OF ELECTRIC SHOCK.
DO NOT OPEN

TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE REAR COVER (or BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE
PERSONNEL.

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
PRODUCTO LASER CLASE 1



This symbol indicates “dangerous voltage” inside
the product that presents a risk of electric shock
or personal injury.



This symbol indicates important instructions
accompanying the product.

CLASS 1 LASER PRODUCT

This Compact Disc player is classified as a CLASS 1
LASER product.

Use of controls, adjustments or performance of procedures
other than those specified herein may result in hazardous
radiation exposure.

**CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND
INTERLOCKS DEFEATED, AVOID EXPOSURE TO BEAM.**

WARNING : To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION : TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

- This apparatus shall always be connected to a AC outlet with a protective grounding connection.
- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.

CAUTION

- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The Mains plug is used as a disconnect device and shall stay readily operable at any time.

Wiring the Main Power Supply Plug (UK Only)

IMPORTANT NOTICE

The main lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and if it requires replacing, a fuse approved to BS1362 of the same rating must be used.

Never use the plug with the fuse cover removed. If the cover is detachable and a replacement is required, it must be of the same colour as the fuse fitted in the plug. Replacement covers are available from your dealer.

If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance.

However, if there is no alternative to cutting off the plug, remove the fuse and then safely dispose of the plug. Do not connect the plug to a main socket as there is a risk of shock hazard from the bared flexible cord.

Never attempt to insert bare wires directly into a main socket. A plug and fuse must be used at all times.

IMPORTANT

The wires in the main lead are coloured in accordance with the following code:- BLUE = NEUTRAL BROWN = LIVE

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:-

The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK.

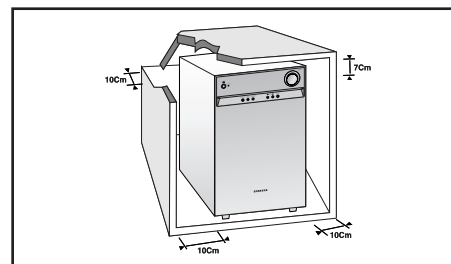
The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

**WARNING : DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE
LETTER E OR BY THE EARTH SYMBOL , OR COLOURED GREEN OR GREEN AND YELLOW.**

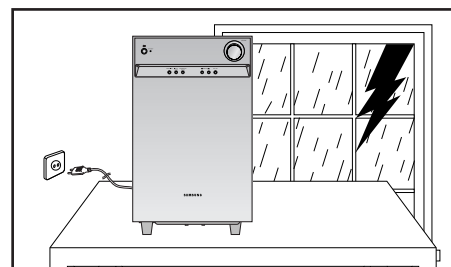
This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life.
To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.
Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.
Business users should contact their supplier and check the terms and conditions of the purchase contract.
This product should not be mixed with other commercial wastes for disposal.



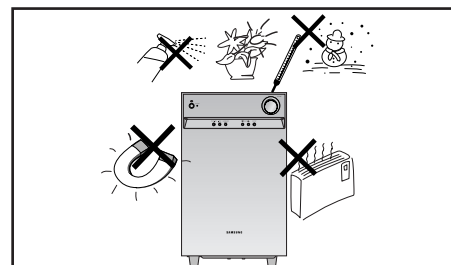
Precautions



Ensure that the AC power supply in your house complies with the identification sticker located on the back of your player. Install your player horizontally, on a suitable base (furniture), with enough space around it for ventilation (7.5~10cm). Make sure the ventilation slots are not covered. Do not stack anything on top of the amplifier. In order to disconnect the player completely from the power supply, remove the mains plug from the wall outlet, especially when left unused for a long period of time.



During thunderstorms, disconnect AC main plug from the wall outlet.
Voltage peaks due to lightning could damage the unit.

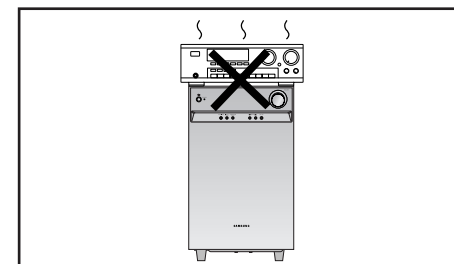


Protect the player from moisture(i.e. vases) , and excess heat(e.g.fireplace) or equipment creating strong magnetic or electric fields (i.e.speakers...). Disconnect the power cable from the AC supply if the player malfunctions. Your player is not intended for industrial use.

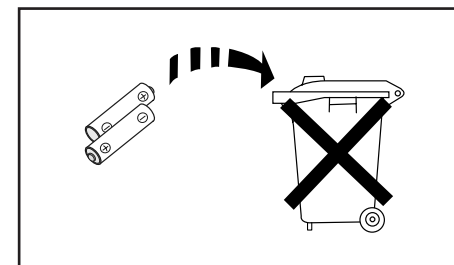
Use of this product is for personal use only.

Condensation may occur if your player or disc have been stored in cold temperatures.

If transporting the player during the winter, wait approximately 2 hours until the unit has reached room temperature before using.



Do not expose the unit to direct sunlight or other heat sources.
This could lead to overheating and malfunction of the unit.



The battery used with this product contain chemicals that are harmful to the environment.
Do not dispose of batteries in the general household trash.



Features

Built-in Subwoofer

Built-in subwoofer in the amplifier enables you to enjoy rich bass sound without additional subwoofer speaker.

Digital Amplifier Speaker

This product is a pure digital Amplifier Speaker that performs digital signal processing to minimize signal distortion and loss.

Dolby Pro Logic II

Dolby Pro Logic II is a new form of multi-channel audio signal decoding technology that improves upon existing Dolby Pro Logic.

DTS (Digital Theater Systems)

DTS play backs 5.1 channel sound with less compression than Dolby Digital for richer sound.

SFE(Sound Field Effect) Using 24bit Audio DSP

Provides more realistic surround sound with normal stereo audio sources.



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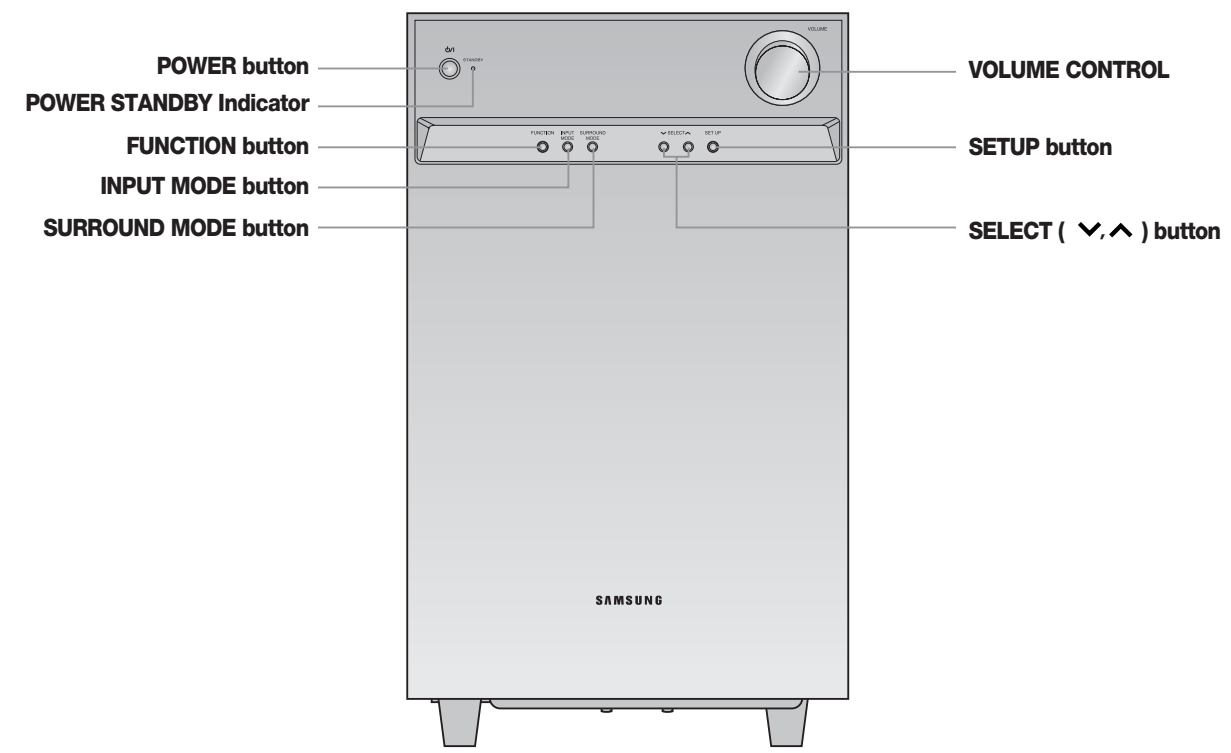
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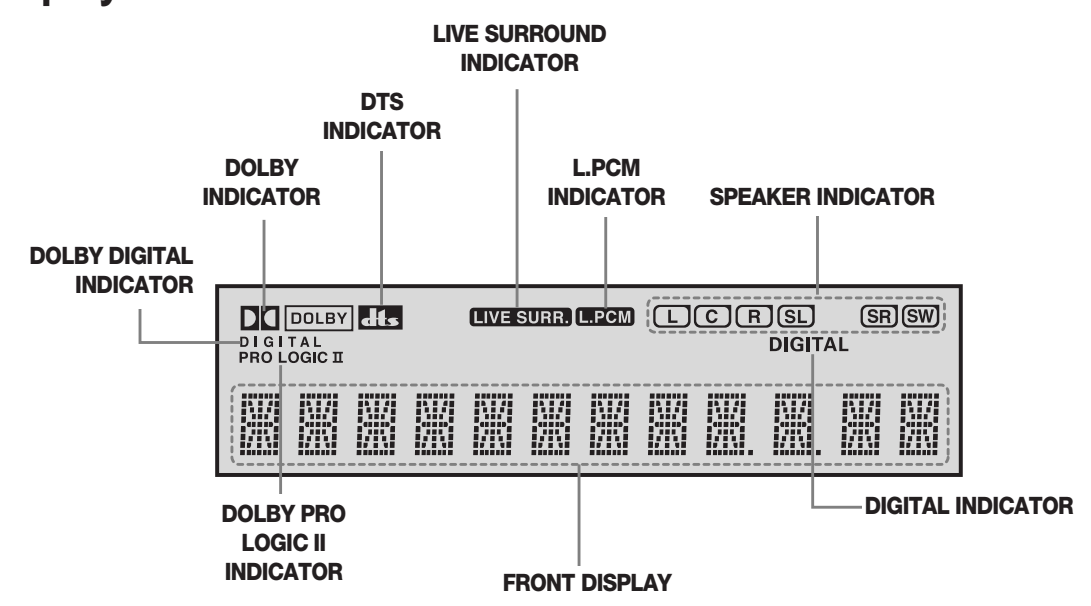
MISCELLANEOUS

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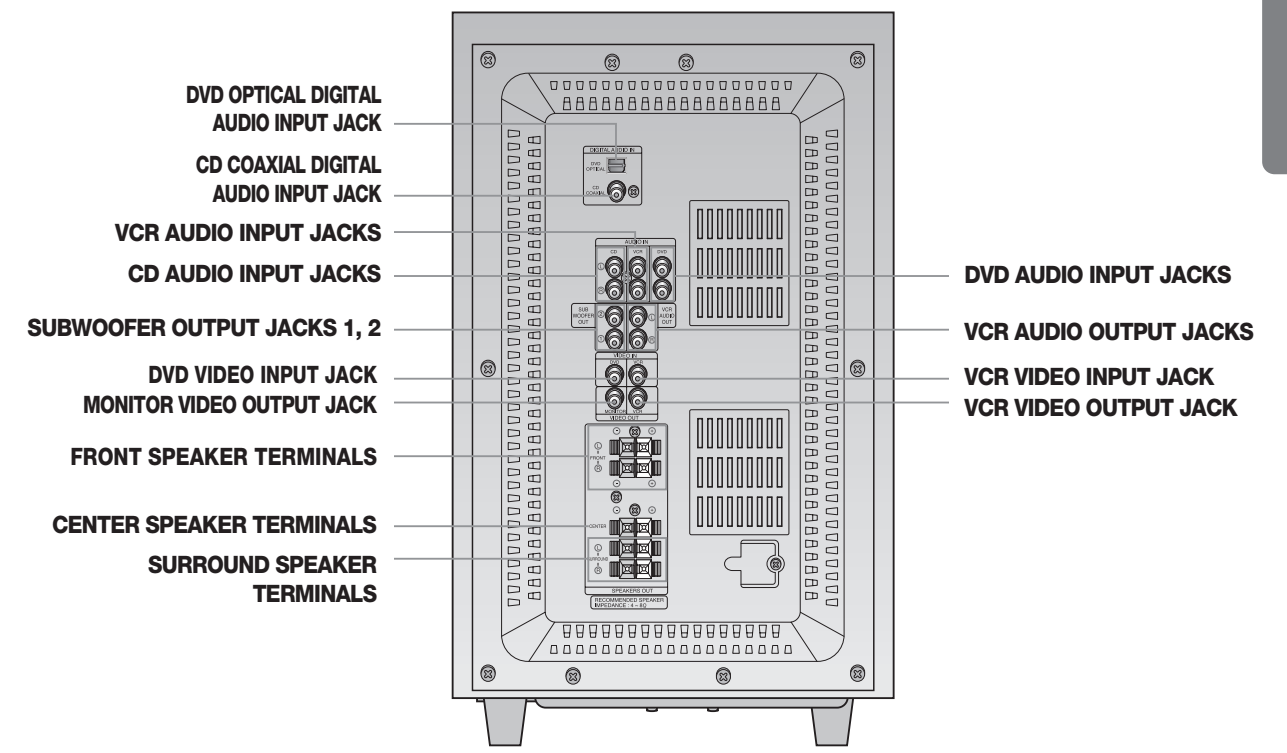
[Front Panel]



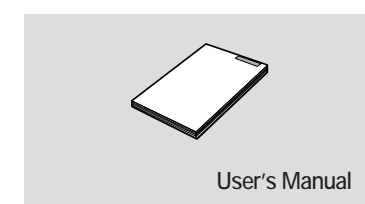
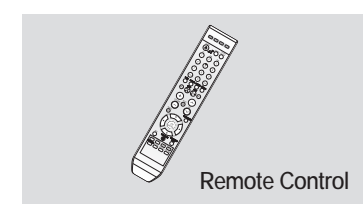
[Display]



[Rear Panel]



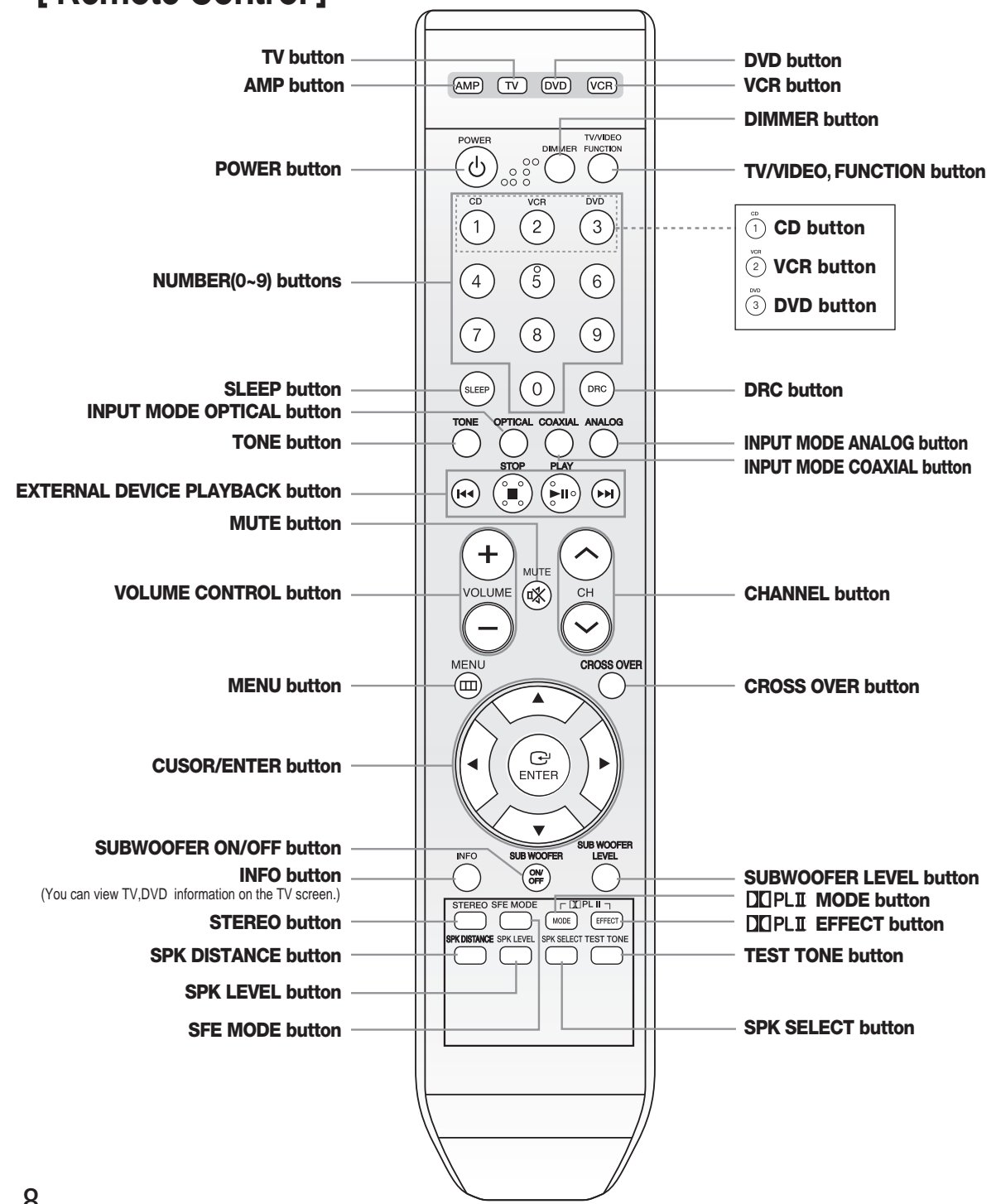
►► Accessories ◀◀



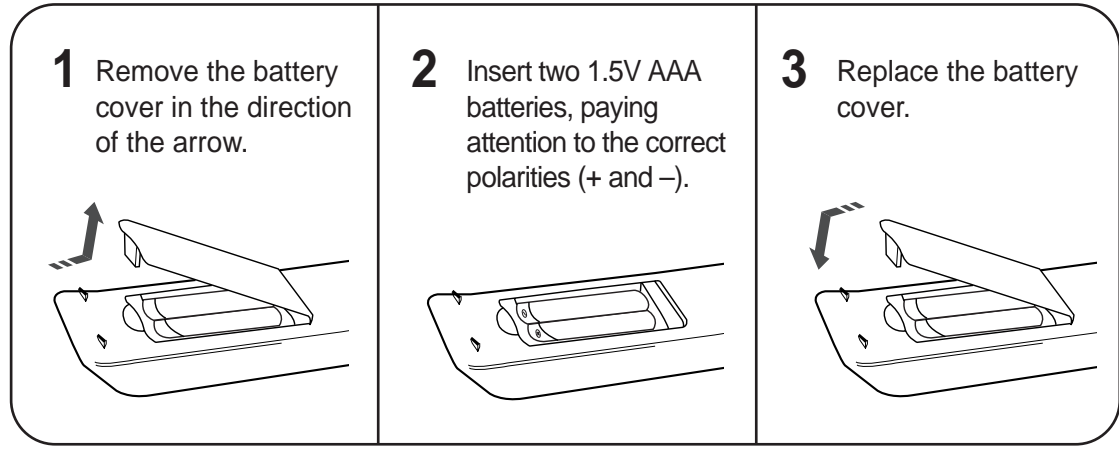


Description (Con't)

[Remote Control]



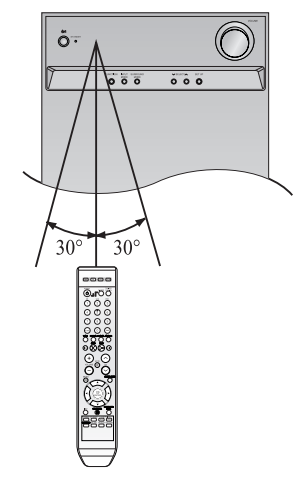
Insert Remote Batteries



- Note**
- Follow these precautions to avoid leaking or cracking batteries:**
- Place batteries in the remote control so they match the polarity:(+) to (+)and (-)to (-).
 - Use the correct type of batteries.Batteries that look similar may differ in voltage.
 - Always replace both batteries at the same time.
 - Do not expose batteries to heat or flame.

Range of Operation of the Remote Control

The remote control can be used up to approximately 7 meters in a straight line. It can also be operated at a horizontal angle of up to 30° from the remote control sensor.





Connecting the Speakers

Before moving or installing the product, be sure to turn off the power and disconnect the power cord.

ACTIVE SUBWOOFER
(not supplied)

MAIN UNIT
HT-AS1

FRONT (R)
PS-AF1

FRONT (L)
PS-AF1

CENTER
PS-AC1

SURROUND (L)
PS-AR1

SURROUND (R)
PS-AR1

- If more bass is desired, you can connect an additional active subwoofer (not supplied) to the Subwoofer 1 or 2 port. Since the signal on the Subwoofer 1 and 2 ports is not stereo, you will hear the same mono bass sound regardless of the port you connect to.

SYSTEM MODEL NAME : HT-AS1

FRONT SPEAKER	PS-AF1
CENTER SPEAKER	PS-AC1
SURROUND SPEAKER	PS-AR1

ACTIVE SUBWOOFER
(not supplied)

MAIN UNIT
HT-AS1T

FRONT (L)
PS-AF1T

FRONT (R)
PS-AF1T

CENTER
PS-AC1T

SURROUND (R)
PS-AR1T

SURROUND (L)
PS-AR1T

SYSTEM MODEL NAME : HT-AS1T

FRONT SPEAKER	PS-AF1T
CENTER SPEAKER	PS-AC1T
SURROUND SPEAKER	PS-AR1T

Position of Digital Amplifier/ subwoofer Speaker

- The position of the Digital Amplifier/ subwoofer Speaker is not so critical. Place it anywhere you like.

Front Speakers L R

- Place these speakers in front of your listening position, facing inwards (about 45°) toward you.
- Place the speakers so that their tweeters will be at the same height as your ear.
- Align the front face of the front speakers with the front face of the center speaker or place them slightly in front of the center speakers.

Center Speaker C

- It is best to install it at the same height as the front speakers.
- You can also install it directly over or under the TV.

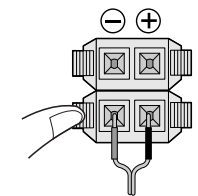
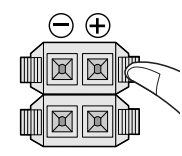
Surround Speakers SL SR

- Place these speakers behind your listening position.
- If there isn't enough room, place these speakers so they face each other.
- Place them about 60 to 90cm (2 to 3feet) above your ear, facing slightly downward.

✳ Unlike the front and center speakers, the surround speakers are used to handle mainly sound effects and sound will not come from them all the time.

Connecting Speaker Wire

- 1 Press the tab of the speaker connector.
- 2 Insert the black wire into the black(-) terminal and the gray wire into the red(+) terminal.



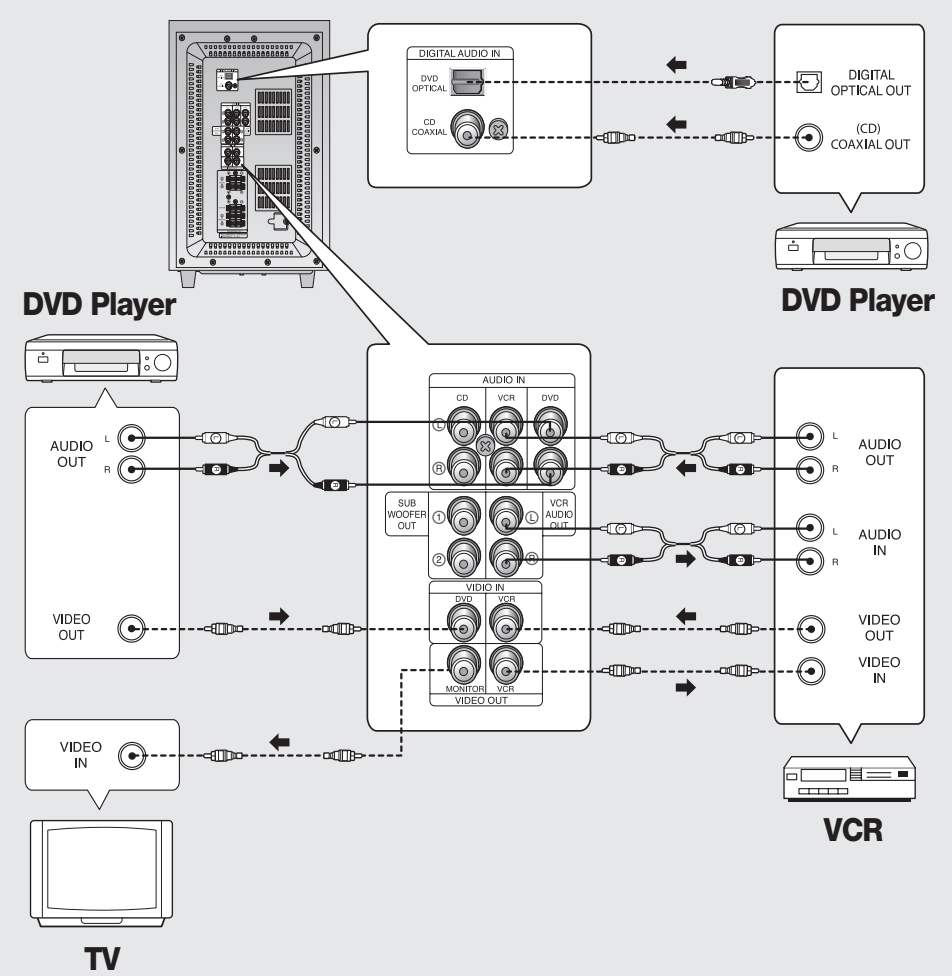
Note

- Never touch speaker terminals while the power is on. Doing so could result in electric shock.
- Make sure the polarities (+ and -) are correct.



Connecting External Components

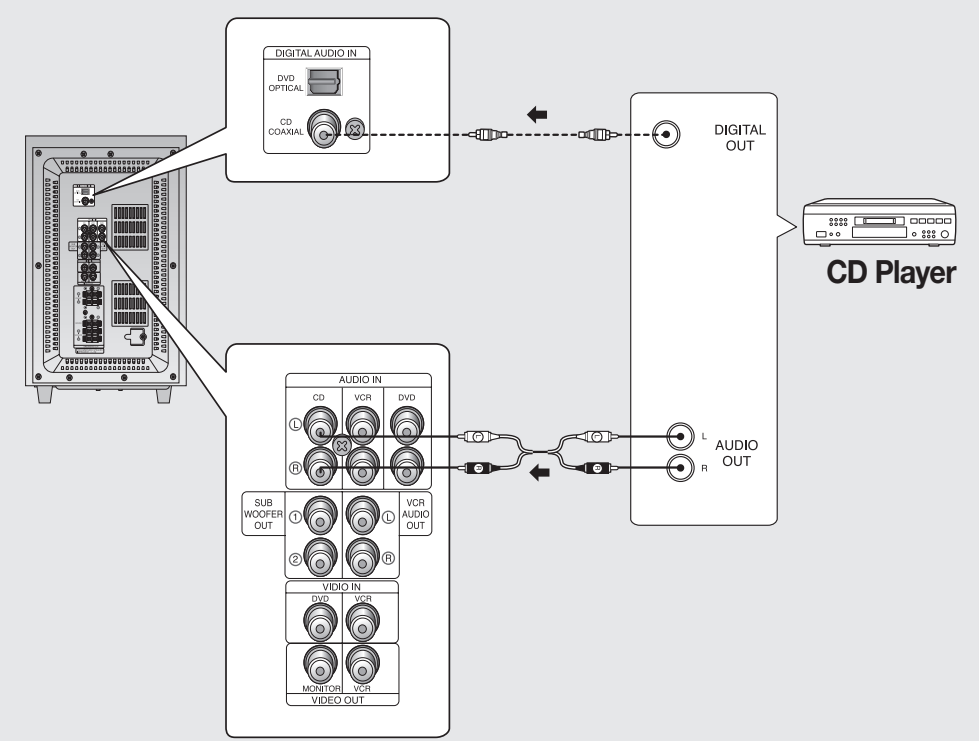
Connecting Video Component



Note

- Disconnect the power plug from the outlet if you will not use this unit for a long period of time.
- In a DVD/CD player, you can select one digital audio input from OPTICAL and COAXIAL.

Connecting Audio Component





Before Using the Digital Amplifier Speaker

Turning On/Off

REMOTE CONTROL

- 1 Connect the power plug to the outlet.
- 2 Press **AMP** button to set the remote to Amplifier mode.
- 3 Press the **POWER** button of the remote control.
 - This unit will be turned on or set to Standby mode.

MAIN UNIT

- 1 Connect the power plug to the outlet.
- 2 Press the **POWER** button of the main unit.
 - This unit will be turned on or set to Standby mode.

Functions of Dedicated Remote Control

You can operate your AMP, TV, DVD, VCR with one remote control.
See pages 44-47 for more details.



To Select the Function

REMOTE CONTROL

Method 1

Press the **FUNCTION** button.

- Each time you press the this button, **DVD** → **VCR** → **CD** will be selected in turn.

Method 2

Press **CD**, **VCR** or **DVD** button.

- You can directly select **CD**, **VCR** or **DVD** .

MAIN UNIT

Press **FUNCTION** button.

- Each time you press the this button, **DVD** → **VCR** → **CD** will be selected in turn.





Selecting Digital/Analog Input

You can listen to sound in 2 channel analogue or Dolby Digital or DTS using this unit.

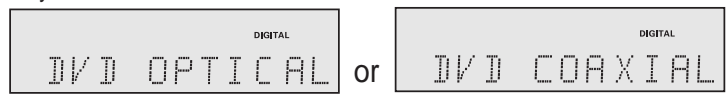


REMOTE CONTROL

For DVD Function

Press the **OPTICAL** or **COAXIAL** button.

- DVD OPTICAL or COAXIAL will be selected.
- Only the items set in the DIGITAL IN of SETUP will be available.



Press the **ANALOG** button.

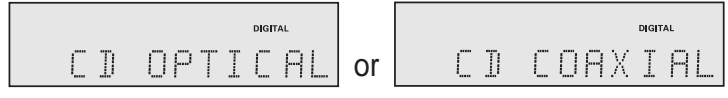
- DVD ANALOG will be selected.



For CD Function

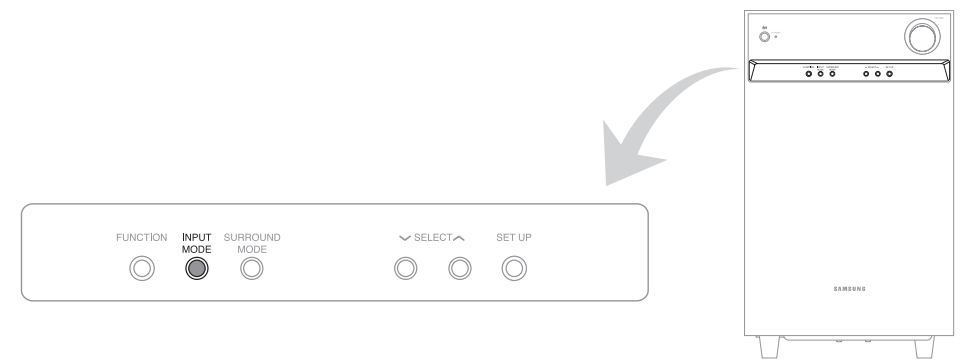
Press the **OPTICAL** or **COAXIAL** button.

- CD OPTICAL or COAXIAL will be selected.
- Only the items set in the DIGITAL IN of SETUP will be available.



Press the **ANALOG** button.

- CD ANALOG will be selected.



MAIN UNIT

For DVD Function

Press the **INPUT MODE** button.

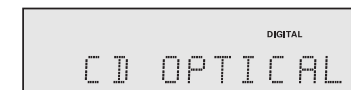
- DVD OPTICAL or COAXIAL and DVD ANALOG will be selected repetitirely.



For CD Function

Press the **INPUT MODE** button.

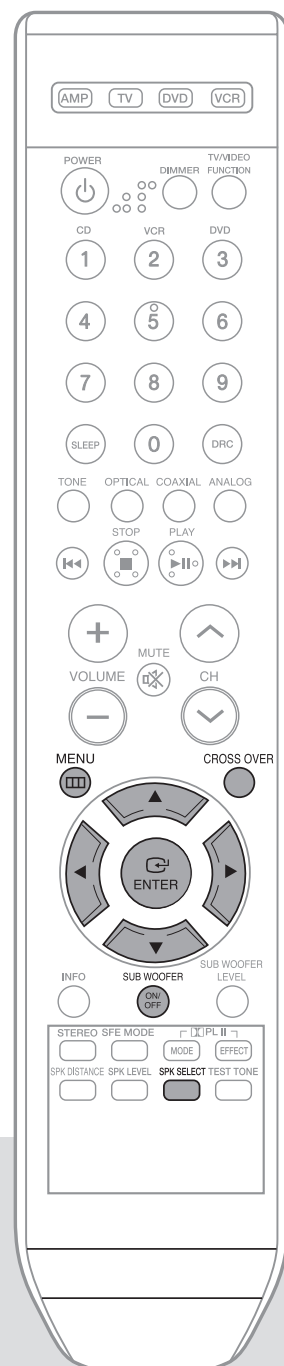
- CD OPTICAL or COAXIAL and CD ANALOG will be selected repetitirely.



- You can change the digital input setting for DVD and CD functions in the "DIGITAL IN" setup. (See pages 22~23)
- You can enjoy Dolby Digital or DTS if you connect the digital audio output jack of an external audio component to the optical/coaxial digital audio input jack on the main unit.

Setting the Speaker Mode

Signal outputs and frequency response from the speaker will be adjusted according to your speaker configuration and whether certain speakers are used or not.



REMOTE CONTROL

- 1 Press **MENU** button, and then press **ENTER** button.
• "SETUP MODE" appears on the display and goes into Setup Mode.
 - 2 Press **◀▶** button to select the "SPK SETUP", and then press **ENTER** button.
 - 3 Press **◀▶** button to select the speaker you want.
• Each time you press this button, F.SPK → C.SPK → S.SPK → SWSPK → CROVR will be selected in turn.
 - 4 Press **▲▼** button to set the mode (Large, Small etc.) for the selected speaker.
 - 5 Repeat steps 3-4 to set the mode for each speaker.
- To exit setup mode**
• Wait for about 5 seconds or press **MENU** button.
"SETUP OFF" appears on the display and Setup Mode is exited.

Using the SPK SELECT button

- 1 Press **SPK SELECT** button to select the speaker you want.
• Each time you press this button, F.SPK → C.SPK → S.SPK → SWSPK → CROVR → SPK MODE OFF will be selected in turn.
- 2 Press **▲▼** button to set the mode (Large, Small etc.) for the selected speaker.
- 3 Repeat steps 1-2 to set the mode for each speaker.

To turn the SUBWOOFER on or off.

Press **SUBWOOFER ON/OFF** button on the remote.

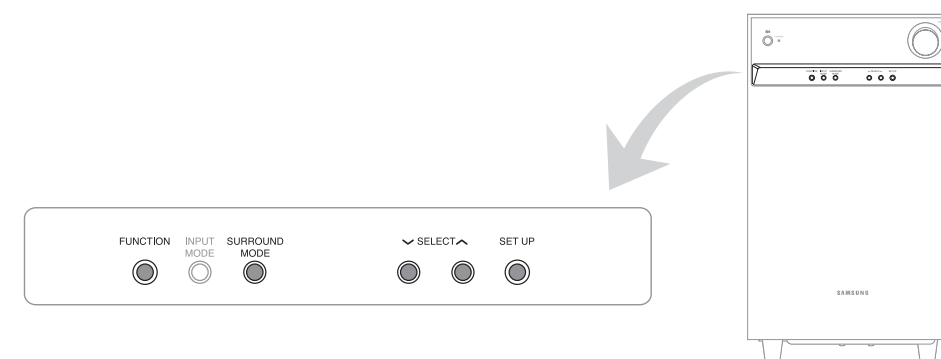
- Each time you press this button, SWSPK : YES, SWSPK : NO will be selected in turn.



- Note**
- If FRONT is set to LARGE, you can select YES or NO for SWSPK.
 - If FRONT is set to SMALL, SWSPK is automatically set to YES. NO cannot be selected.

To set the cross over.

Press **CROSS OVER** button, and then press **▲▼** button to set the cross over frequency.



MAIN UNIT

- 1 Press **SETUP** button.
• "SETUP MODE" appears on the display and goes into Setup Mode.
 - 2 Press **FUNCTION** button to select the "SPK SETUP".
 - 3 Press **SURROUND MODE** button to select the speaker you want.
• Each time you press this button, F.SPK → C.SPK → S.SPK → SWSPK → CROVR will be selected in turn.
 - 4 Press **SELECT** (▼, ▲) button to set the mode for the selected speaker.
 - 5 Repeat steps 3-4 to adjust each speaker.
- To exit setup mode**
• Wait for about 5 seconds or press **SETUP** button.
"SETUP OFF" appears on the display and Setup Mode is exited.

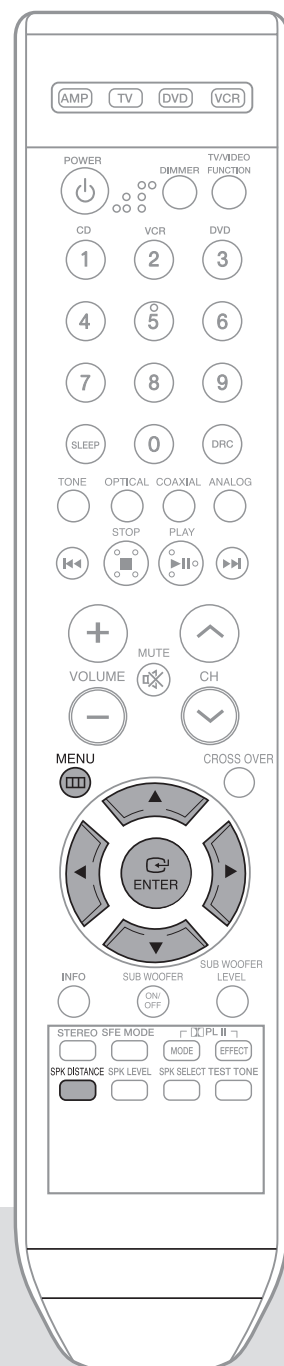
Setting the Speaker

SPEAKER	Possible Settings	Default Setting
F.SPK(Front)	LARGE, SMALL	SMALL
C.SPK(Centre)	LARGE, SMALL, NONE	SMALL
S.SPK(Surround)	LARGE, SMALL, NONE	SMALL
SWSPK(Subwoofer)	YES, NO	YES
CROVR (Crossover Frequency)	60, 80, 100, 120, 150, 180, 200(Hz)	150Hz

- **LARGE** : Select when using large speakers. You can listen to full range sound.
- **SMALL** : Select this when using small speakers
- **NONE** : Select when you use no speaker.
- **YES (subwoofer)** : Select when using the subwoofer speaker.
- **NO (subwoofer)** : Select when not using the subwoofer speaker.
- **CROVR** : Select the crossover frequency for the best bass response in your room.

Setting the Speaker Listening Distance

If the speakers cannot be placed at equal distances from the listening position, you can adjust the delay time of the audio signals from the centre and surround speakers.



REMOTE CONTROL

- 1 Press **MENU** button, and then press **ENTER** button.
• "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press **◀▶** button to select the "DIST SETUP", and then press **ENTER** button.
- 3 Press **◀▶** button to select the speaker you want.
• Each time you press this button, F.L → CEN → F.R → S.R → S.L → S.W will be selected in turn.
- 4 Press **▲▼** button to set the speaker distance.
• For F.L, CEN, F.R, S.R, S.L, S.W Speaker, you can set the distance from the speaker to listening position between 0.3~9.0m in intervals of 0.3m.

To exit setup mode

- Wait for about 5 seconds or press **MENU** button.
"SETUP OFF" appears on the display and Setup Mode is exited.

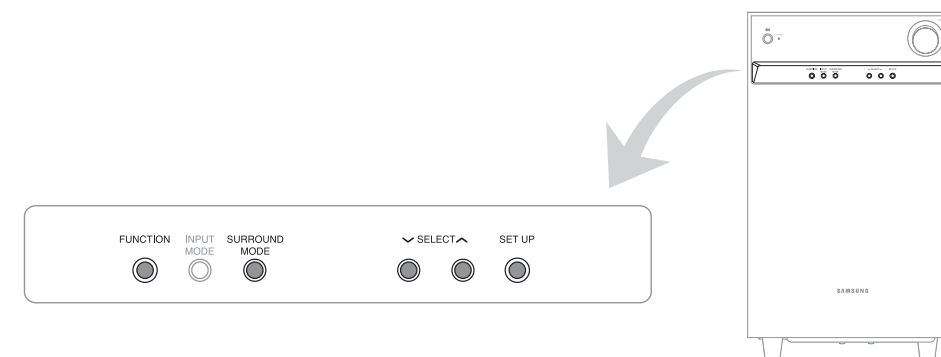
Using the SPK DISTANCE button

- 1 Press the **SPK DISTANCE** button to select the speaker you want.
• Each time you press this button, F.L → CEN → F.R → S.R → S.L → S.W → DISTANCE OFF will be selected in turn.
- 2 Press **▲▼** button to set the speaker distance.
• For F.L, CEN, F.R, S.R, S.L, S.W Speaker, you can set the distance from the speaker to listening position between 0.3~9.0m in intervals of 0.3m.
- 3 Repeat steps 1-2 to set the mode for each speaker.



Note

- If the listening position is beyond the range of speaker distance setup when you place the speaker, set the speaker distance to the maximum.



MAIN UNIT

- 1 Press **SETUP** button.
• "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press **FUNCTION** button to select the "DIST SETUP".
- 3 Press **SURROUND MODE** button to select the speaker you want.
• Each time you press this button, F.L → CEN → F.R → S.R → S.L → S.W will be selected in turn.
- 4 Press **SELECT(▼,▲)** button to set the speaker distance.
• For F.L, CEN, F.R, S.R, S.L, S.W Speaker, you can set the distance from the speaker to listening position between 0.3~9.0m in intervals of 0.3m.

To exit setup mode

- Wait for about 5 seconds or press **SETUP** button.
"SETUP OFF" appears on the display and Setup Mode is exited.

Setting Speaker Distance

Set the distance from the speaker to listening position in intervals of 0.3m.

- **F.L (front left)** : 0.3m ~ 9m
- **CEN (centre)** : 0.3m ~ 9m
- **F.R (front right)** : 0.3m ~ 9m
- **S.R (surround right)** : 0.3m ~ 9m
- **S.L (surround left)** : 0.3m ~ 9m
- **SW (subwoofer)** : 0.3m ~ 9m



Setting Digital Input

You can set the digital input for a DVD/CD player to either OPTICAL or COAXIAL.

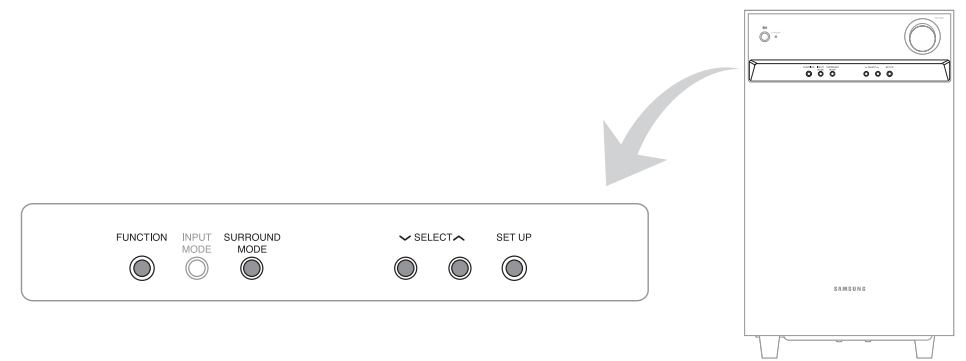


REMOTE CONTROL

- 1 Press **MENU** button, and then press **ENTER** button.
 - “SETUP MODE” appears on the display and goes into Setup Mode.
- 2 Press **◀▶** button to select the “DIGITAL IN”, and then press **ENTER** button.
- 3 Press **◀▶** button to select the the CD or DVD function.
 - Each time you press this button, CD ↔ DVD will be selected in turn.
- 4 Press **▲▼** button to set the digital input.
 - Each time you press this button, COAXIAL ↔ OPTICAL will be selected in turn.

To exit setup mode

- Wait for about 5 seconds or press **MENU** button.
- “SETUP OFF” appears on the display and Setup Mode is exited.



MAIN UNIT

- 1 Press **SETUP** button.
 - “SETUP MODE” appears on the display and goes into Setup Mode.
- 2 Press **FUNCTION** button to select the “DIGITAL IN”.
- 3 Press **SURROUND MODE** button to select the CD or DVD function.
 - Each time you press this button, CD ↔ DVD will be selected in turn.
- 4 Press **SELECT(▼,▲)** button to set the digital input.
 - Each time you press this button, COAXIAL ↔ OPTICAL will be selected in turn.

To exit setup mode

- Wait for about 5 seconds or press **SETUP** button.
- “SETUP OFF” appears on the display and the unit Setup Mode is exited.



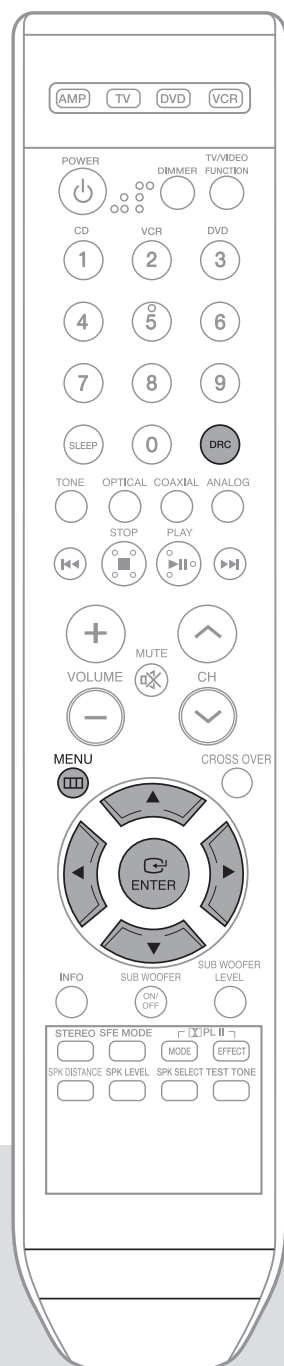
You can select only one digital input for each function.
Example) If you have selected COAXIAL for the CD function, you cannot select COAXIAL for the DVD function.

Function	Digital input (Default setting)
DVD	OPTICAL
CD	COAXIAL



Setting DRC (Dynamic Range Compression)

You can use this function to enjoy Dolby Digital sound when watching movies at low volume at night.



REMOTE CONTROL

- 1 Press **MENU** button, and then press **ENTER** button.
• "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press **◀▶** button to select the "DRC SETUP", and then press **ENTER** button.
• "DRC:STD" appears on the display.
- 3 Press **▲▼** button to set the DRC.
• Each time you press this button, DRC : STD → DRC : MAX → DRC : MIN will be selected in turn.

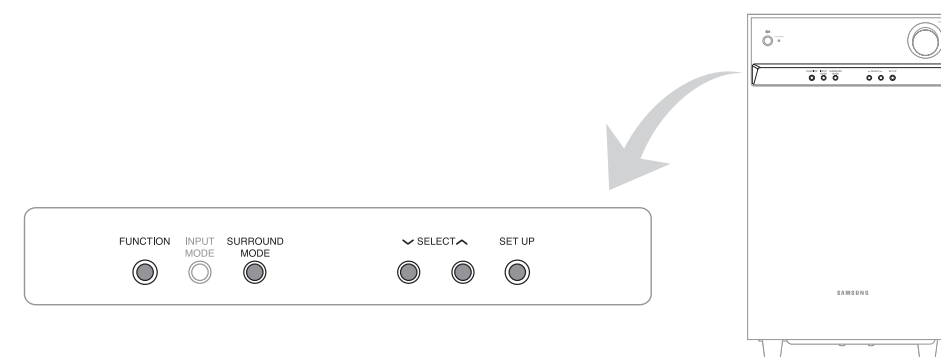
To exit setup mode

- Wait for about 5 seconds or press **MENU** button.
"SETUP OFF" appears on the display and Setup Mode is exited.

Using the DRC button

Press **DRC** button.

- Each time you press this button, DRC : STD → DRC : MAX → DRC : MIN will be selected in turn.



MAIN UNIT

- 1 Press **SETUP** button.
• "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press **FUNCTION** button to select the "DRC SETUP".
- 3 Press **SURROUND MODE** button.
• "DRC : STD" appears on the display .
- 4 Press **SELECT**(**▼**, **▲**) button to set DRC.
• Each time you press this button, DRC : STD → DRC : MAX → DRC : MIN will be selected in turn.

To exit setup mode

- Wait for about 5 seconds or press **SETUP** button.
"SETUP OFF" appears on the display and the unit Setup Mode is exited.

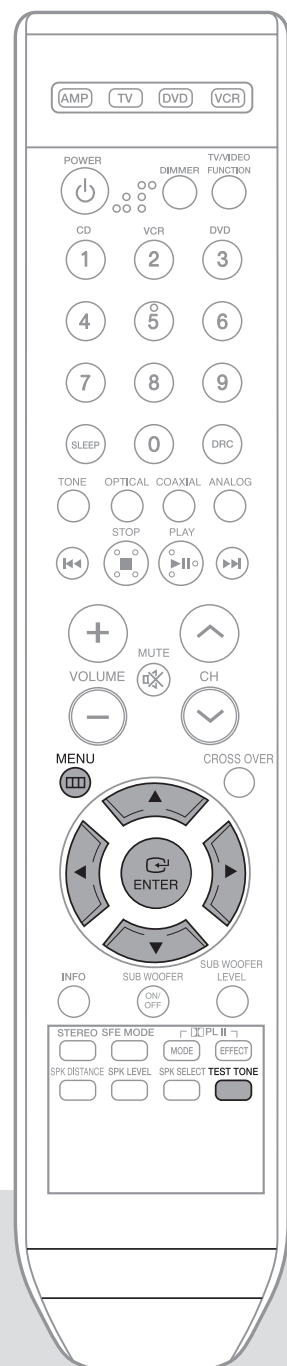
Setting DRC

- **STD** : Sets DRC effect to standard.
- **MAX** : Sets DRC effect to maximum.
- **MIN** : Sets DRC effect to minimum.



Test Tone

Use test tone to check the speaker connection status or level.



To automatically output test tone



REMOTE CONTROL

- 1 Press **MENU** button, and then press **ENTER** button.
• "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press **◀▶** button to select the "TEST-T AUTO", and then press **ENTER** button.
• Test signal will be automatically output as follows; F.L → CEN → F.R → S.R → S.L → S.W.
• During test signal output, press **▲▼** button to adjust the speaker output level from -10 to +10 dB by 1 step.

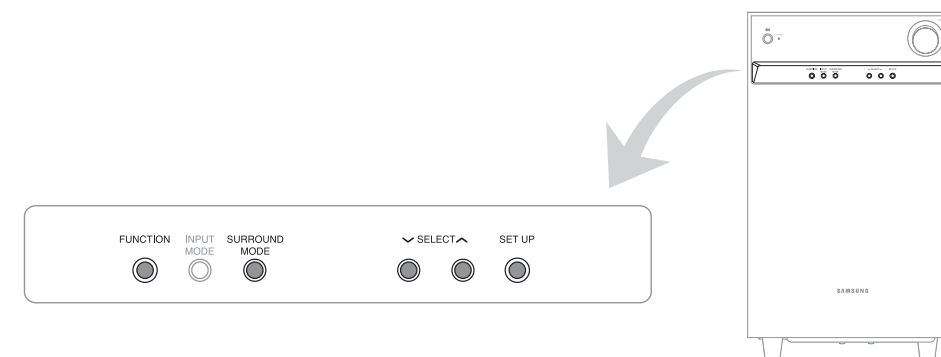
To stop test tone

- Press **MENU** button once time.
"SETUP OFF" appears on the display and test tone stops.

Using the Test Tone button

Press **TEST TONE** button.

- Test signal will be automatically output as follows; F.L → CEN → F.R → S.R → S.L → S.W.
- During test tone output, press **▲▼** button to adjust the speaker output level from -10 to +10 dB by 1 step.



MAIN UNIT

- 1 Press **SETUP** button.
• "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press **FUNCTION** button to select the "TEST-T AUTO".
- 3 Press **SURROUND MODE** button.
• Test signal will be automatically output as follows; F.L → CEN → F.R → S.R → S.L → S.W.
• During test signal output, press **SELECT** (**▼, ▲**) button to adjust the speaker output level from -10 to +10 dB by 1 step.

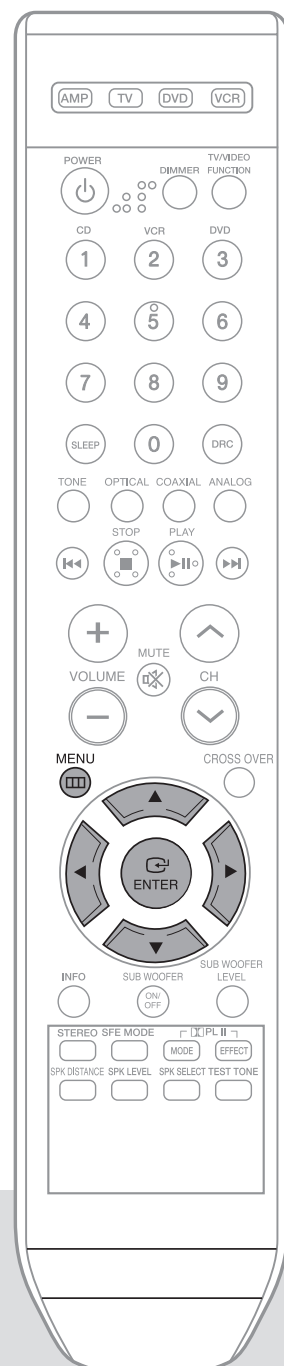
To stop test tone

- Press **SETUP** button once time.
"SETUP OFF" appears on the display and test tone stops.



Test Tone (Con't)

Use test tone to check the speaker connection status or level.



To Manually Output Test Tone

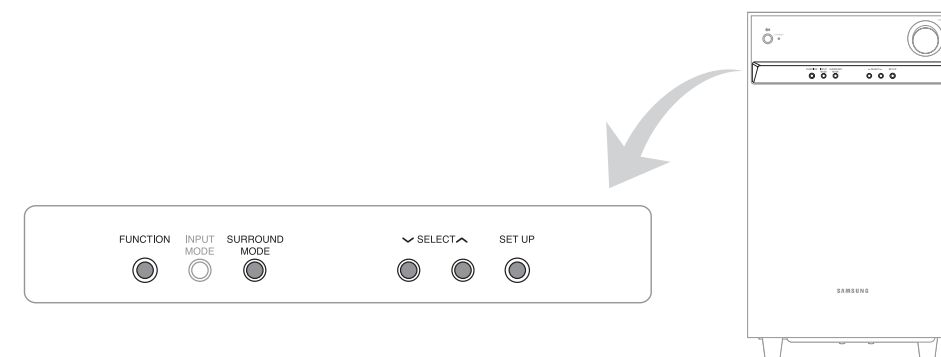


REMOTE CONTROL

- 1 Press **MENU** button, and then press **ENTER** button.
• "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press **◀▶** button to select the "TEST-T MANU", and then press **ENTER** button.
- 3 Press **◀▶** button to select the speaker you want.
• Each time you press **◀▶** button, F.L → CEN → F.R → S.R → S.L → S.W will be selected in turn.
- 4 Press **▲▼** button to set the test tone as you want.
• You can adjust the speaker output level from -10 to +10dB by 1 step.
• The sound gets quieter at -10dB and louder at +10dB.

To stop test tone

- Press **MENU** button once time.
"SETUP OFF" appears on the display and test tone stops.



MAIN UNIT

- 1 Press **SETUP** button.
• "SETUP MODE" appears on the display and the unit goes into Setup Mode.
- 2 Press **FUNCTION** button to select the "TEST-T MANU".
- 3 Press **SURROUND MODE** button.
• Each time you press this button, F.L → CEN → F.R → S.R → S.L → S.W will be selected in turn.
- 4 Press **SELECT(▼,▲)** button to set the test tone as you want.
• You can adjust the speaker output level from -10 to +10dB by 1 step.
• The sound gets quieter at -10dB and louder at +10dB.

To stop test tone

- Press **SETUP** button once time.
"SETUP OFF" appears on the display and test signal stops.

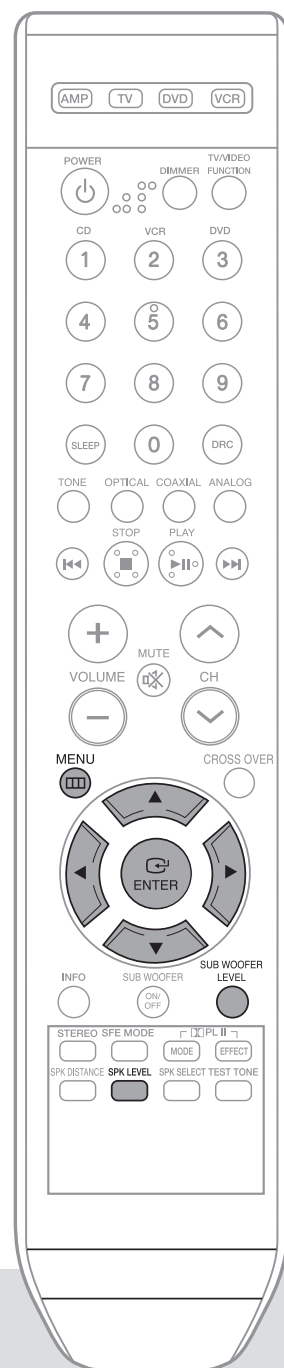
Test Tone Output

- **F.L (front left)** : -10 ~ +10dB
- **CEN (centre)** : -10 ~ +10dB
- **F.R (front right)** : -10 ~ +10dB
- **S.R (surround right)** : -10 ~ +10dB
- **S.L (surround left)** : -10 ~ +10dB
- **S.W (subwoofer)** : -10 ~ +10dB



Setting Speaker Level

You can set the balance and level of speakers.



REMOTE CONTROL

- 1 Press **MENU** button, and then press **ENTER** button.
 - "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press **◀▶** button to select the "LEVEL SETUP", and then press **ENTER** button.
- 3 Press **◀▶** button to select the speaker you want.
 - Each time you press **◀▶** button, F.L → CEN → F.R → S.R → S.L → S.W will be selected in turn.
- 4 Press **▲▼** button to set the speaker level you want.
 - You can adjust it from -10 to +10dB by 1 step.
 - The sound gets smaller at -10dB and louder at +10dB.

To exit setup mode

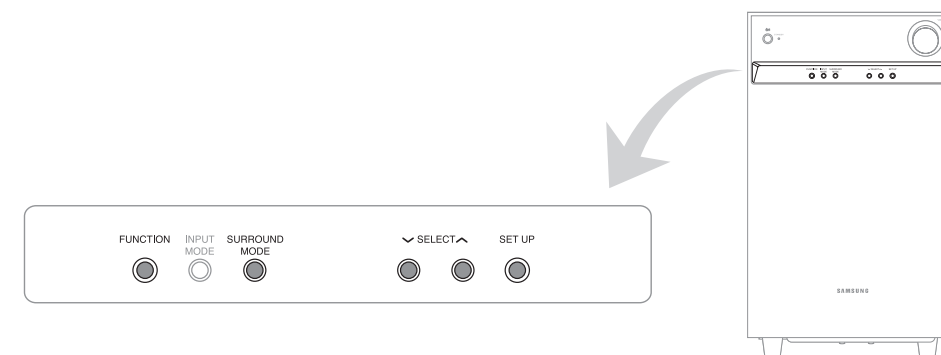
- Wait for about 5 seconds or press **MENU** button.
- "SETUP OFF" appears on the display and Setup Mode is exited.

Using the SPK LEVEL button

- 1 Press **SPK LEVEL** button to select the speaker you want.
 - Each time you press this button, F.L → CEN → F.R → S.R → S.L → S.W → SPK LVL OFF will be selected in turn.
- 2 Press **▲▼** button to set the speaker level you want.
 - You can adjust it from -10 to +10dB by 1 step.
 - The sound gets quieter at -10dB and louder at +10dB.

To set the SUBWOOFER LEVEL.

Press **SUBWOOFER LEVEL** button, and then press **▲▼** button to set the subwoofer level.



MAIN UNIT

- 1 Press **SETUP** button.
 - "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press **FUNCTION** button to select the "LEVEL SETUP".
- 3 Press **SURROUND MODE** button.
 - Each time you press this button, F.L → CEN → F.R → S.R → S.L → S.W will be selected in turn.
- 4 Press **SELECT(▼,▲)** button to set the speaker level you want.
 - You can adjust it from -10 to +10dB by 1 step.
 - The sound gets smaller at -10dB and louder at +10dB.

To exit setup mode

- Wait for about 5 seconds or press **SETUP** button.
- "SETUP OFF" appears on the display and exits Setup Menu.

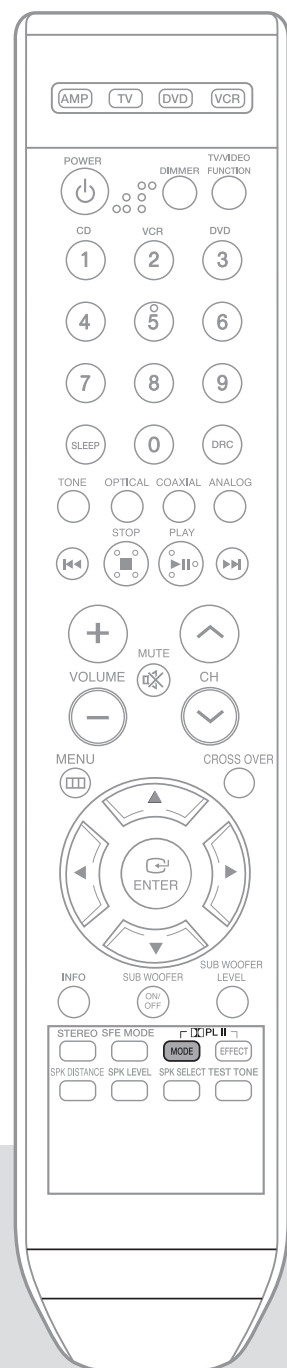
Setting Speaker Level

- **F.L (front left)** : -10 ~ +10dB
- **CEN (centre)** : -10 ~ +10dB
- **F.R (front right)** : -10 ~ +10dB
- **S.R (surround right)** : -10 ~ +10dB
- **S.L (surround left)** : -10 ~ +10dB
- **S.W (subwoofer)** : -10 ~ +10dB



Dolby Pro Logic II Mode

This mode provides 5.1 channel sound from 2 channel sources



REMOTE CONTROL

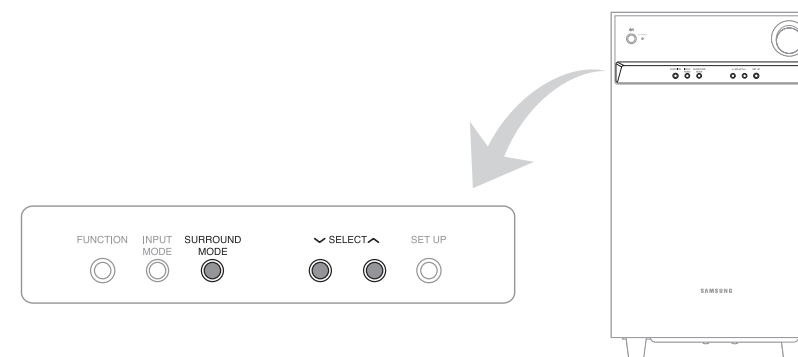
Press **DPLII MODE** button.

- Each time you press this button, CINEMA → MATRIX → GAME → PRO LOGIC → MUSIC will be selected in turn.



To exit setup mode

- Wait for about 5 seconds.



MAIN UNIT

1 Press **SURROUND MODE** button to select "DPLII" mode.

- Each time you press this button, DPLII → SFE → STEREO will be selected in turn.

2 Press **SELECT(▼,▲)** button.

- Each time you press **SELECT (▲)** button, CINEMA → MATRIX → GAME → PRO LOGIC → MUSIC will be selected in turn.
- Each time you press **SELECT (▼)** button, MUSIC → PRO LOGIC → GAME → MATRIX → CINEMA will be selected in turn.

To exit setup mode

- Wait for about 5 seconds.

Dolby Pro Logic II mode

- MUSIC** : Provides 5.1 channel surround sound to digital, analogue or existing stereo sources such as CD, TAPE, TV and stereo VCR.
- CINEMA** : Adds realism to the movie soundtrack.
- MATRIX** : You will hear 5.1 channel surround sound.
- GAME** : Enhances the excitement of the game's sound.
- PRO LOGIC** : You will experience a surround effect with just the front left and right speakers.

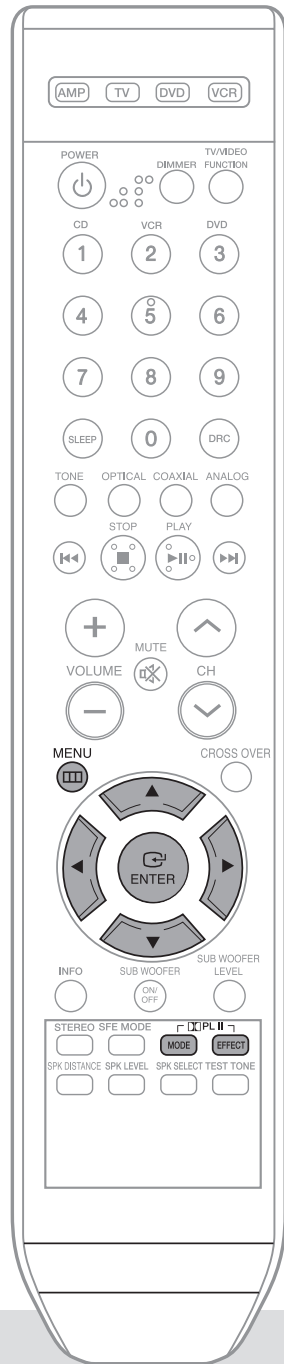
Note

- You cannot use Dolby Pro Logic II mode for multi channel signals such as Dolby Digital and DTS.
- Pro Logic works only for PCM audio signals with sampling frequencies of 32KHz, 44KHz or 48KHz.
- Sound will not be output from surround back speaker if PCM audio signal is mono.



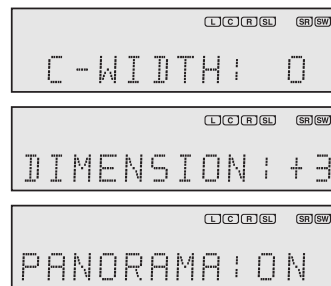
Setting Dolby Pro Logic II Effect

This function works only in Dolby PRO LOGIC II MUSIC Mode.



REMOTE CONTROL

- 1 Press **MENU** button, and then press **ENTER** button.
• "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press **◀▶** button to select the "C-PLII:MODE", and then press **ENTER** button.
- 3 Press **◀▶** button.
• Each time you press this button, C-WIDTH → DIMENSION → PANORAMA will be selected in turn.
- 4 Press **▲▼** button to set the Dolby Pro Logic II effect you want.

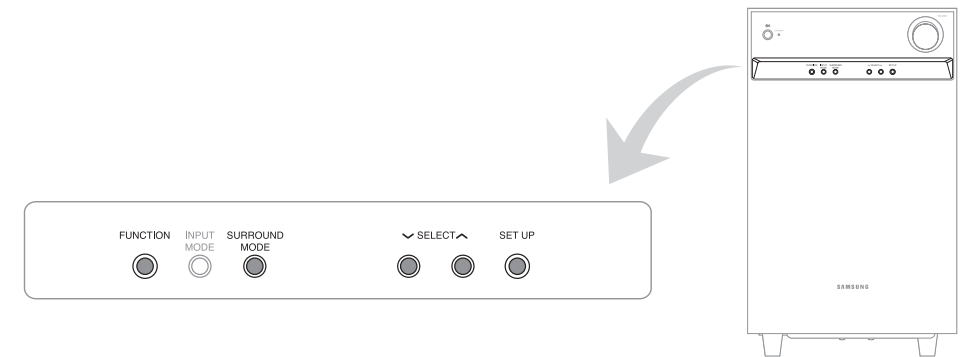


To exit setup mode

- Wait for about 5 seconds or press **MENU** button.
"SETUP OFF" appears on the display and Setup Mode is exited.

Using the **PL II EFFECT** button

- 1 Press **PL II MODE** button to select 'MUSIC' Mode.
- 2 Press **PL II EFFECT** button.
• Each time you press this button, C-WIDTH → DIMENSION → PANORAMA will be selected in turn.
- 3 Press **▲▼** button to select Dolby Pro Logic II effect you want.
• **C-WIDTH** : You can set from 0 to 7.
• **DIMENSION** : You can set from -7 to +7.
• **PANORAMA** : You can set it ON or OFF.



MAIN UNIT

- 1 Press **SETUP** button.
• "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press **FUNCTION** button to select the "DPLII MODE".
- 3 Press **SURROUND MODE** button.
• Each time you press this button, C-WIDTH → DIMENSION → PANORAMA will be selected in turn.
- 4 Press **SELECT**(**▼**, **▲**) button to set the Dolby Pro Logic II effect you want.

To exit setup mode

- Wait for about 5 seconds or press **SETUP** button.
"SETUP OFF" appears on the display and Setup Mode is exited.

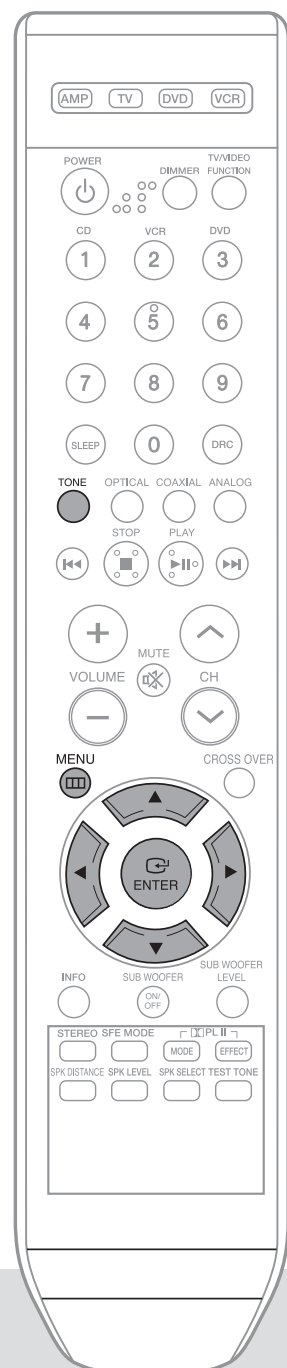
Dolby Pro Logic II effect

- **C-WIDTH** : This sets the width of the centre image. The higher the setting, the less sound comes from the centre speaker.
- **DIMENSION** : Incrementally adjusts the sound field (DSP) from the front or surround.
- **PANORAMA** : This mode extends the front stereo image to include the surround speakers for an exciting "wraparound" effect with side wall imaging.



Setting Tone Control

This function allows setting up the tone quality of the front speaker.



REMOTE CONTROL

- 1 Press **MENU** button, and then press **ENTER** button.
 - "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press **◀▶** button to select the "TONE CONTROL", and then press **ENTER** button.
- 3 Press **◀▶** button.
 - Each time you press this button, BASS → TREBLE → TONE : OFF will be selected in turn.
 - If it is set to TONE: OFF, the Tone Control function will be disabled.
- 4 Press **▲▼** button to set the tone control you want.
 - You can adjust it from -6 to +6dB by 1 step.
 - The sound gets smaller at -6dB and louder at +6dB.

To exit setup mode

- Wait for about 5 seconds or press **MENU** button.
- "SETUP OFF" appears on the display and Setup Mode is exited.

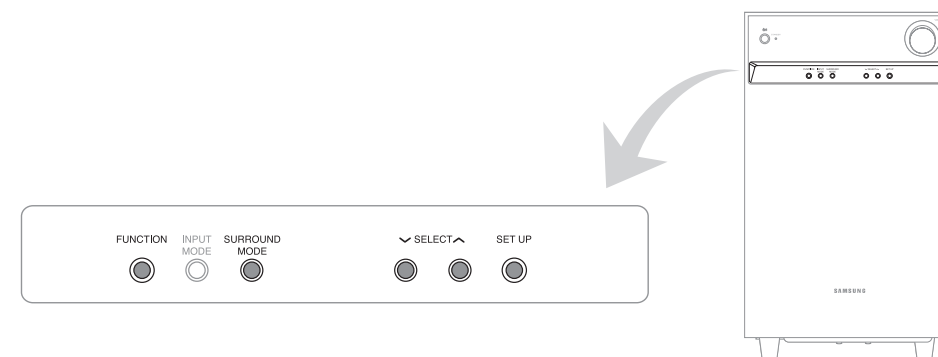
Using the TONE button

- 1 Press **TONE** button.
 - Each time you press this button, BASS → TREBLE → TONE : OFF will be selected in turn.
- 2 Press **▲▼** button to set the tone control you want.
 - You can adjust it from -6 to +6dB by 1 step.
 - The sound gets quieter at -6dB and louder at +6dB.



Note

- Tone Control function is available only in the Stereo mode.



MAIN UNIT

- 1 Press **SETUP** button.
 - "SETUP MODE" appears on the display and goes into Setup Mode.
- 2 Press **FUNCTION** button to select the "TONE CONTROL".
- 3 Press **SURROUND MODE** button.
 - Each time you press this button, BASS → TREBLE → TONE : OFF will be selected in turn.
- 4 Press **SELECT(▼,▲)** button to set the tone control you want.
 - You can adjust it from -6 to +6dB by 1 step.
 - The sound gets smaller at -6dB and louder at +6dB.

To exit setup mode

- Wait for about 5 seconds or press **SETUP** button.
- "SETUP OFF" appears on the display and exits Setup Menu.

SFE Mode

The SFE (Sound Field Effect) function uses 7 different DSP sound field effects to digitally simulate actual music environments such as concert halls or cinemas.



REMOTE CONTROL

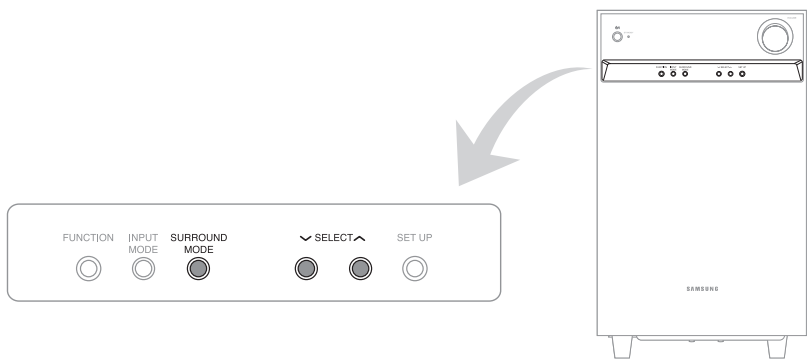
Press **SFE MODE** button.

- Each time you press this button, HALL → THEATER → ARENA → CLUB → DOME → STADIUM → CHURCH will be selected in turn.





- DVD HALL
- DVD THEATER
- DVD ARENA
- DVD CLUB
- DVD DOME
- DVD STADIUM
- DVD CHURCH

To exit setup mode

- Wait for about 5 seconds.



MAIN UNIT

- 1 Press **SURROUND MODE** button to select 'SFE' Mode.
 - Each time you press this button, DPLII → SFE → STEREO will be selected in turn.
- 2 Press **SELECT**(, ) button.
 - Each time you press Select () button, HALL → THEATER → ARENA → CLUB → DOME → STADIUM → CHURCH will be selected in turn
 - Each time you press Select () button, CHURCH → STADIUM → DOME → CLUB → ARENA → THEATER → HALL will be selected in turn.

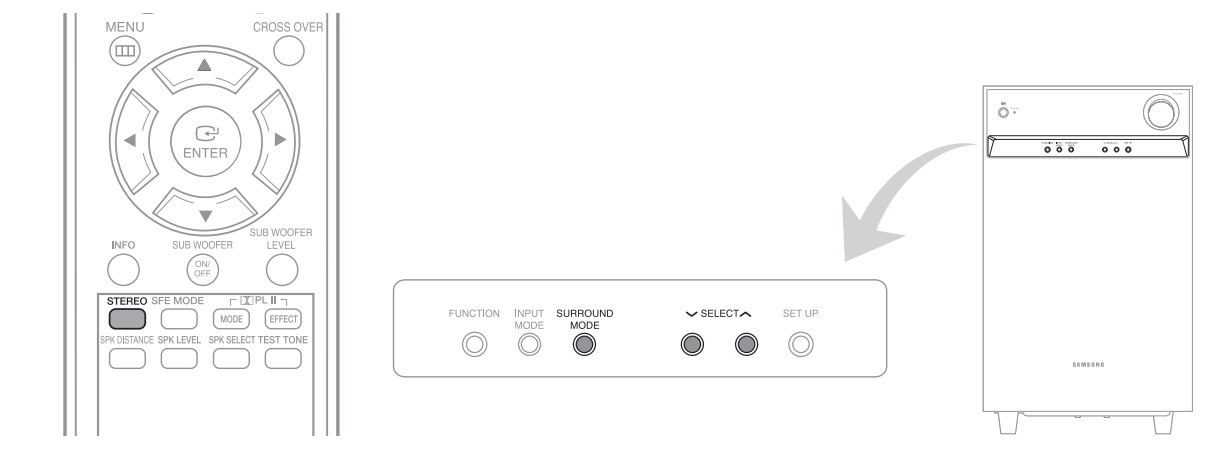
To exit setup mode

- Wait for about 5 seconds.



Stereo Mode

You can select this mode when listening to sound through the front left and right speakers and subwoofer.



REMOTE CONTROL

Press **STEREO** button.

- “STEREO” appears in the display and Stereo Mode is selected.



To exit setup mode

- Wait for about 5 seconds.

MAIN UNIT

Press **SURROUND MODE** button to select ‘STEREO’.

- Each time you press this button, DPLII → SFE → STEREO will be selected in turn.

To exit setup mode

- Wait for about 5 seconds.

For Surround Mode and Input Signal

o = active, – = inactive

Surround Mode	Input Signal	Decoding	Output Channel				Display Information	
			L/R	C	SL SR	Sub Woofer	Display Signal Format	Channel Status
DOLBY (MUSIC, CINEMA, MATRIX, GAME, PROLOGIC)	Dolby D Surr. EX	Dolby Digital 5.1	o	o	o	o	DIGITAL	L, C, R, SL, SR, SW
	Dolby D (5.1ch)	Dolby Digital 5.1	o	o	o	o	DIGITAL	L, C, R, SL, SR, SW
	Dolby D (2ch)	Pro Logic II	o	o	o	o	DIGITAL	L, C, R, SL, SR, SW
	Dolby D (2ch Surr)	Pro Logic II	o	o	o	o	DIGITAL	L, C, R, SL, SR, SW
	L.PCM (Audio)	Pro Logic II	o	o	o	o	L.PCM	L, C, R, SL, SR, SW
	Analog	Pro Logic II	o	o	o	o	ANALOG	L, C, R, SL, SR, SW
DTS	DTS-ES	DTS 5.1	o	o	o	o	DTS	L, C, R, SL, SR, SW
	DTS 96/24	DTS 5.1	o	o	o	o	DTS	L, C, R, SL, SR, SW
	DTS (5.1)	DTS 5.1	o	o	o	o	DTS	L, C, R, SL, SR, SW
	L.PCM (Audio)	Neo:6	o	o	o	-	L.PCM	L, R
SFE	Dolby D (2ch)	DD + SFE	o	o	o	o	DIGITAL	L, C, R, SL, SR, SW
	Dolby D (2ch Surr)	DD + SFE	o	o	o	o	DIGITAL	L, C, R, SL, SR, SW
	L.PCM (Audio)	SFE	o	o	o	o	L.PCM	L, C, R, SL, SR, SW
	Analog	SFE	o	o	o	o	ANALOG	L, C, R, SL, SR, SW
STEREO	Dolby D (2ch)	DD	o	-	-	-	DIGITAL	L, R, SW
	Dolby D (2ch Surr)	DD	o	-	-	-	DIGITAL	L, R, SW
	L.PCM (Audio)	Stereo	o	-	-	-	L.PCM	L, R, SW
	L.PCM 96KHz	Stereo	o	-	-	-	L.PCM	L, R, SW
	Analog	Stereo	o	-	-	-	ANALOG	L, R, SW

L/R : Front Speaker (Left/Right) C : Center Speaker SL/SR : Rear Speaker (Left/Right) SW : Subwoofer



- Channel status displays are dependent on the speaker configuration.
- SFE mode works with 2-ch signals.

Convenient Functions

Sleep timer function

You can set the time that this unit will shut itself off.

REMOTE CONTROL

Press the **SLEEP** button.

- SLEEP : OFF → 15 → 30 → 45 → 60 → 90 → 120 M (MIN) will be selected in turn.

To check sleep timer

Press **SLEEP** button.

- The remaining time before this unit will shut itself off is shown on the display.
- Pressing the button again changes the sleep time from what you set previously.

To cancel sleep timer

- Press **SLEEP** button until "SLEEP : OFF" appears on the display.

Mute function

This function is useful when answering a doorbell or telephone call.

REMOTE CONTROL

Press the **MUTE** button.

- **MUTE** appears on the display.

To output sound again

Press **MUTE** button again.

- **MUTE** will disappear and sound will output.



Note

- SLEEP, Mute and the Adjust Display function can only be operated with the remote control.

Reset function

If a product malfunction occurs, you can re-initialize the system.

REMOTE CONTROL

- 1 Press the **MUTE** button.
 - **MUTE** appears on the display.
- 2 Press "0" button five times and then press **ENTER** button.
 - "INITIAL : YES" appears on the display.
- 3 Press **▲▼** buttons to select "YES".
 - The unit will turn off after 5 seconds.

MAIN UNIT

Turn off the power and hold the **SELECT (▲)** button for longer than 5 seconds.

- **POWER STANDBY** indicator will flash.

Caution!

- Using the **RESET** function will erase all stored settings.
- Do not use this unless necessary.

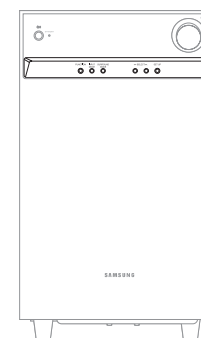
Adjust the display

You can adjust the brightness of the display.

REMOTE CONTROL

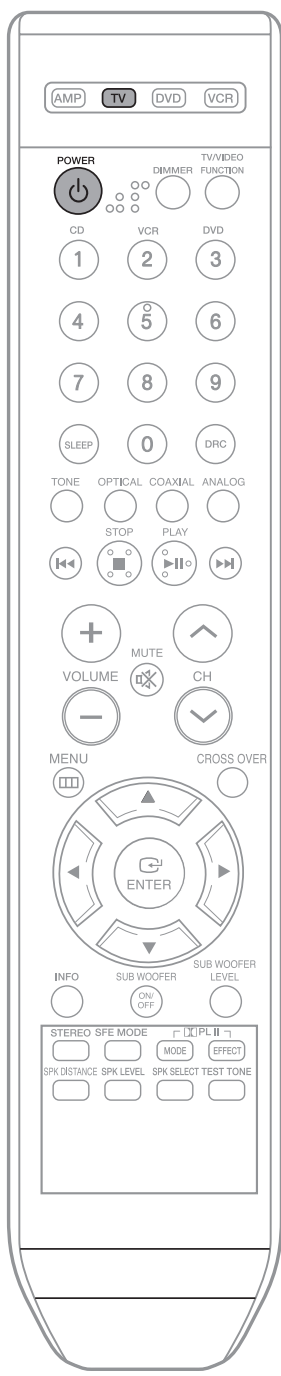
Press the **DIMMER** button.

- Each time you press this, the brightness changes as follows :
DARK → BRIGHT.





Operating your TV with the Remote Control



1 Press **TV** button to set the remote to TV mode.

2 Press **POWER** button to turn on the TV.

3 While holding down **POWER** button, enter the code corresponding to your brand of TV.

- If there is more than one code listed for your TV in the table, enter one at a time to determine which code works.

4 If the TV turns off, the setting is complete.

- You can use the TV POWER, VOLUME, CHANNEL, MENU and Numeric buttons (0~9).



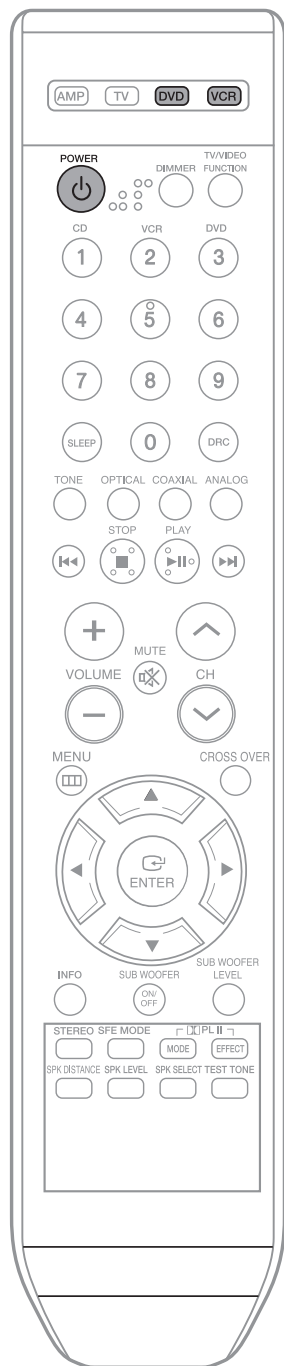
Note

- The remote control may not work on some brands of TVs. Also, some operations may not be possible depending on your brand of TV.
- The remote control will work with Samsung TVs by default.

TV Brand Code List

Brand	Code Number	Brand	Code Number	Brand	Code Number
ADMIRAL(M.WARDS)	056, 057, 058	LUXMAN	018	SYLVANIA	018, 040, 048, 054, 059, 060, 062
AMARK	001, 015	LXI(SEARS)	019, 054, 056, 059, 060, 062, 063, 065, 071	SYMPHONIC	061, 095, 096
ANAM	001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014	MAGNAVOX	015, 017, 018, 048, 054, 059, 060, 062, 072, 089	TATUNG	006
AOC	001, 018, 040, 048	MARANTZ	040, 054	TECHWOOD	018
BELL&HOWELL(M.WARDS)	057, 058, 081	MATSUI	054	TEKNIKA	003, 015, 018, 025
BROCSONIC	059, 060	MGA	018, 040	TMK	018, 040
CANDLE	018	MITSUBISHI/MGA	018, 040, 054, 059, 060, 075, 101	TOSHIBA	019, 057, 063, 071, 101, 107, 109, 110, 111, 113
CETRONIC	003	MTC	018	VIDTECH	018
CITIZEN	003, 018, 025	NEC	018, 019, 020, 040, 059, 060	VIDECH	059, 060, 069
CINEMA	097	NIKEI	003	WARDS	015, 017, 018, 040, 048, 054, 060, 064
CLASSIC	003	ONKING	003	YAMAHA	018
CONCERTO	018	ONWA	003	YORK	040
CONTEC	046	PANASONIC	006, 007, 008, 009, 054, 066, 067, 073, 074	YUPITERU	003
CORONADO	015	PENNEY	018	ZENITH	058, 079
CRAIG	003, 005, 061, 082, 083, 084	PHILCO	003, 015, 017, 018, 048, 054, 059, 062, 069, 090	ZONDA	001
CROSLEX	062	PHILIPS	015, 017, 018, 040, 048, 054, 062, 072, 112, 114, 117, 118	DONGYANG	003, 054
CROWN	003	PIONEER	063, 066, 080, 091	LOWE	054
CURTISMATES	059, 061, 063	PORTLAND	015, 018, 059	FINLUX	054, 109, 114
CXC	003	PROTON	040	YOKO	054
DAEWOO	002, 003, 004, 015, 016, 017, 018, 019, 020, 021, 022, 023, 024, 025, 026, 027, 028, 029, 030, 032, 034, 035, 036, 040, 048, 059, 090, 099, 100	QUASAR	006, 066, 067	LOEWE OPTA	054, 114
DAYTRON	040	RADIO SHACK	017, 048, 056, 060, 061, 075	PHONOLA	054, 112, 114
DYNASTY	003	RCA/PROSCAN	018, 059, 067, 076, 077, 078, 092, 093, 094	RADIOLA	054, 112
EMERSON	003, 015, 040, 046, 059, 061, 064, 082, 083, 084, 085	REALISTIC	003, 019	SCHNEIDER	054
FISHER	019, 065, 103	SAMPO	040	AKAI	103
FUNAI	003	SAMSUNG	000, 015, 016, 017, 040, 043, 046, 047, 048, 049, 054, 059, 060, 098	GRUNDIG	108, 109, 113, 119, 120, 121
FUTURETECH	003	SANYO	019, 061, 065, 101, 102, 103, 104	BLAUPUNKT	108
GENERAL ELECTRIC(GE)	006, 040, 056, 059, 066, 067, 068	SCOTT	003, 040, 060, 061	SIEMENS	108
HALL MARK	040	SEARS	015, 018, 019	CGE	113
HITACHI	015, 018, 050, 059, 069	SHARP	015, 057, 064, 101, 105, 106, 115	IMPERIAL	113
INKEL	045	SIGNATURE 2000(M.WARDS)	057, 058	MIVAR	113
JC PENNY	056, 059, 067, 086	SONY	050, 051, 052, 053, 055, 101	SABA	114
JVC	070	SOUNDESIGN	003, 040	BANG&OLUFSEN	114
KTV	059, 061, 087, 088	SPECTRICON	001	BRIONVEGA	114
KEC	003, 015, 040	SSS	018	FORMENTI	114
KMC	015			METZ	114
LG(GOLDSTAR)	001, 015, 016, 017, 037, 038, 039, 040, 041, 042, 043, 044, 054, 086			WEGA	114
				RADIOMARELLI	114
				SINGER	114
				SINUDYNE	114
				TELEFUNKEN	116

Operating your DVD (VCR) with the Remote Control



- 1 Press **DVD** button to set the remote to DVD mode.
• If you operate VCR, press VCR button to set the remote to VCR mode.

- 2 Press **POWER** button to turn on the DVD (VCR).

- 3 While holding down **POWER** button, enter the code corresponding to your brand of DVD (VCR).

- If there is more than one code listed for your DVD (VCR) in the table, enter one at a time to determine which code works.

- 4 If the DVD(VCR) turns off, the setting is complete.

- You can use DVD (VCR) POWER, VOLUME, PLAY, PAUSE, STOP, SKIP, MENU and Numeric button (0-9).



- Note**
- The remote control may not work on some brands of DVD (VCR). Also, some operations may not be possible depending on your brand of DVD (VCR).
 - The remote control will work with Samsung DVD (VCR) by default.

VCR Brand Code List

Brand	Code Number	Brand	Code Number	Brand	Code Number
ADMIRAL(M.WARDS)	043, 106	MEI	001, 033	TASHIRO	050
AWIA	044, 045, 046	MEMOREX	001, 025, 033, 054, 091, 100	TATUNG	047, 052, 092
AKAI	088, 089, 090	MINOLTA	020, 021, 062	TEAC	044, 047, 052, 092
ANAM	001, 002, 003, 004, 005, 033	MITSUBISHI/MGA	068, 069, 070, 101, 102	TECHNICS	001, 033, 049, 091
AOC	091	MTC	072	TEKNIKA	001, 025, 033
AUDIO DYNAMIC	019, 047, 092	MULTITECH	044, 057, 069	TOSHIBA	006, 051
BELL & HOWELL(M.WARDS)	048, 093	NEC	019, 047, 052, 057, 092	TOTEVISION	025, 072
BROKSONIC	092, 094, 095	OLYMPIC	049, 091	TAEKWANG	087
CANON	001, 033, 049, 091	OPTIMUS	101	UNITECH	072
CAPEHART	011	ORION	103	VECTORRESEARCH	019
CITIZEN	050	PANASONIC	001, 004, 033, 049, 067, 091, 107	VIDEO CONCEPTS	019
CRAIG	050, 072, 096	PENNEY	019, 020, 072	VIDEOSONIC	072
CRITERION	051	PENTAX	001, 020, 021, 033, 062	WARDS	001, 020, 031, 032, 033, 043, 050, 054, 072, 100, 105, 106, 109
CURTISMATHES	001, 031, 032, 033, 044, 091	PHILCO	001, 033, 046, 049, 091, 094	YAMAHA	019, 047, 048, 052, 092
DAEWOO	006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 046, 051, 091	PHILIPS	001, 030, 033, 049, 050, 066, 091	ZENITH	019, 047, 048, 052, 092
DAYTRON	011	PILOT	025	DVD Brand Code List	
DBX	019, 047, 052, 092	PIONEER	049		
EMERSON	025, 031, 032, 044, 046, 094, 095, 097, 098, 099	PORTLAND	011	Brand	Code Number
FISHER	009, 048, 053, 054, 055, 100	QUASAR	001, 033, 049, 067, 091, 107, 108	DENON	003, 032
FUNAI	044	RICO	036	DOONON	019
GENERAL ELECTRIC(GE)	001, 031, 032, 033, 056, 091	RCA/PROSCAN	001, 020, 021, 031, 032, 033, 049, 051, 062, 066, 070, 091, 104	DMTECH	017
GO VIDEO	059, 060, 061	REALISTIC	001, 009, 025, 033, 044, 048, 054, 091, 101, 105	FISHER	002
HARMAN KARDON	019	SAMSUNG	000, 006, 031, 032, 057, 058, 071, 072, 073, 074, 075, 076, 077, 078, 079, 080, 081	GE	006
HITACHI	020, 021, 049, 054, 062, 100	SANYO	008, 009, 046, 048, 050, 054, 058, 093, 100	HARMAN/KARDON	012
HQ	051	SANSUI	092	JVC	010, 013
INSTANT REPLAY	001, 033, 049, 091	SCOTT	006, 051, 054, 057, 069, 070, 100, 101	KENWOOD	008
JCL	001, 033	SEARS	020, 021, 025	LG	001
JCP	025	SHARP	043, 105, 106	MAGNAVOX	004
JC PENNY	047, 048, 052, 062, 091, 092	SINGER	096	MITSUBISHI	005, 016
JVC	001, 033, 047, 052, 063, 064, 065, 092	SIGNATURE 2000(M.WARDS)	043, 044, 054, 100, 106	ONKYO	004, 014
KENWOOD	047, 050, 052, 092	SHINTOM	096	OPTIMUS	011
LG(GOLDSTAR)	019, 020, 021, 022, 023, 024, 025, 026, 027, 028, 029, 030, 050	SONY	034, 035, 036, 037, 038, 039, 040, 041, 042, 082, 083, 084, 085, 086	PANASONIC	021
LXI(SEARS)	020, 025, 044, 048, 050, 053, 054, 055, 062, 100	STS	020	PROSCAN	006
MAGIN	072	SYLVANIA	001, 033, 044, 049, 066, 091	PHILIPS	004, 023
MAGNAVOX	001, 031, 032, 033, 049, 066, 067, 091	SYMPHONIC	044	PIONEER	007, 011, 022, 025
MARANTZ	001, 019, 033, 047, 052, 092, 110	TANDY	009	RCA	006
MARTA	025, 050			SAMSUNG	000, 027
				SANYO	002
				SONY	015, 020
				THETA DIGITAL	011
				TOSHIBA	004, 018
				YAMAHA	009, 033
				ZENITH	004, 024
				TAEKWANG	026
				PS2	028
				X-BOX	029
				APEX	030
				MARANTZ	031



Before Calling for Service

Symptom	Check	Remedy
Can't turn it on.	<ul style="list-style-type: none">Is the power cord plugged into the outlet?	<ul style="list-style-type: none">Connect the power plug to the outlet.
It does not work when the button is pressed.	<ul style="list-style-type: none">Is there static electricity in the air?	<ul style="list-style-type: none">Disconnect the power plug and connect it again.
Sound is not produced.	<ul style="list-style-type: none">Are the speakers and external components connected properly?Is the Mute function on?Is the volume set to minimum?Is the speaker setup set incorrectly to NONE?Aren't you playing MPEG II audio in an external device?	<ul style="list-style-type: none">Connect them correctly.Press Mute button to cancel the function.Adjust the volume.Refer to pages 18~19 to select LARGE, SMALL or YES.MPEG II audio decoding is not supported. Set the audio format of the external device to PCM.
Picture does not appear when the function is selected.	<ul style="list-style-type: none">Is the external component connected properly?	<ul style="list-style-type: none">Connect them correctly.
Remote controller does not work.	<ul style="list-style-type: none">Are the batteries drained?Is the distance between remote control and main unit too great?	<ul style="list-style-type: none">Replace with new batteries.Operate at close distance.
The sound from each device is changed during stereo playback.	<ul style="list-style-type: none">Are the left/right speaker or left/right input/output cables connected properly?	<ul style="list-style-type: none">Check the left/right channel and connect it/them correctly.
There is no sound from surround speakers.	<ul style="list-style-type: none">Is the surround speaker connected properly?Is SURR (surround) incorrectly set to NONE in speaker setup?Is surround mode selected to stereo?	<ul style="list-style-type: none">Refer to pages 10~11 to connect it properly.Refer to pages 18~19 to select LARGE or SMALL.Refer to pages 32~41 to select other Surround Mode.
There is no sound from centre speaker	<ul style="list-style-type: none">Is the centre speaker connected properly?Is CEN (centre) incorrectly selected to NONE in speaker setup?Is the surround mode selected to stereo?	<ul style="list-style-type: none">Refer to pages 10~11 to connect it properly.Refer to pages 18~19 to select LARGE or SMALL.Refer to pages 32~41 to select other Surround Modes.

Symptom	Check	Remedy
Can't select Dolby Pro Logic II mode.	<ul style="list-style-type: none">Is the input signal selected properly?	<ul style="list-style-type: none">Select 2 channel Dolby Digital, PCM, and Analogue input signal.
There is no sound when playing a DTS encoded DVD.	<ul style="list-style-type: none">Is Digital input selected?	<ul style="list-style-type: none">Check whether digital external component is properly connected and refer to page 22~23 to select the digital input.

Product protection function

Heat protection

- The protection function will come on if the main unit or power transformer overheats. "PROTECTION" will appear in the display . This function will come on :
 - If speaker terminal is shorted
 - If speaker cable is shorted
 - If there is no problem when you turn the unit on again after turning it off, PROTECTION mark will disappear on the display and the unit will work properly.



- If PROTECTION appears on the display, check whether the speaker terminal is shorted and then turn on the unit



Specifications

GENERAL	Power Supply	AC 220-240V, 50/60 Hz
	Standby Power Consumption	0.9W
	Power Consumption	100W
	Weight	13 kg
	Dimensions (W x H x D)	270 x 450 x 520 mm
	Operating Temperature Range	+5°C~+35°C
	Operating Humidity Range	10%~75%
AMPLIFIER	Rated Output	20Hz~20KHz/THD = 10%
	Front Speaker(Left+Right)	4 Ω 100W/CH
	Center Speaker	4 Ω 100W/CH
	Surround Speaker(Left+Right)	4 Ω 100W/CH
	Subwoofer Speaker	4 Ω 100W/CH
	Input Sensitivity/Impedance	450mV/47kΩ
	S/N Ratio(Analog Input)	80dB
FREQUENCY RESPONSE	Separation(1KHz)	60dB
	Analog Input	20Hz~20KHz(±3dB)
	Digital Input	20Hz ~44KHz(±3dB)
VIDEO OUTPUT	TV Format	NTSC/PAL
	Input Level/Impedance	1Vp-p/75 Ω
	Output Level/Impedance	1Vp-p/75 Ω
	Video Frequency Response	5Hz to 10KHz(-3dB)
	S/N Ratio	60dB

✱ S/N ratio, distortion, separation and usable sensitivity are based on measurement using AES-17 filter.

HT-AS1

SPEAKERS	Speaker system	Front / Surround		Center
	Impedance	4Ω		4Ω
	Frequency range	140Hz~20KHz		140Hz~20KHz
	Output sound pressure level	86dB/W/M		86dB/W/M
	Rated input	100W		100W
	Maximum input	200W		200W
	Dimensions (W x H x D)	Front	90 x 152 x 90 mm	200 x 90 x 92 mm
		Surround	90 x 152 x 90 mm	
	Weights	Front	0.5kg	0.6 Kg
		Surround	0.4kg	

HT-AS1T

SPEAKERS	Speaker system	Front / Surround		Center
	Impedance	4Ω		4Ω
	Frequency range	140Hz~20KHz		140Hz~20KHz
	Output sound pressure level	86dB/W/M		86dB/W/M
	Rated input	100W		100W
	Maximum input	200W		200W
	Dimensions (W x H x D)	Front	90 x 1045 x 90 mm (Stand base : Ø 270)	200 x 90 x 92 mm
		Surround	90 x 152 x 90 mm	
	Weights	Front	3.5kg	0.6 Kg
		Surround	0.4kg	